

REPL

Definiton:

A **REPL** stands for **Read-Eval-Print Loop**. It's an interactive programming environment that takes user input, evaluates it, and then prints the result. This process happens in a continuous loop, making it a useful tool for testing code, debugging, or experimenting with programming concepts.

In the context of **JavaScript**, a REPL allows you to:

1. **Read** the JavaScript code input by the user.
2. **Evaluate** that code and execute it.
3. **Print** the result of the evaluation to the console.
4. **Loop** back to the input stage for more commands.

Code:

```
let list = [];  
  
console.log("Simple Array REPL (JavaScript)");  
console.log("Commands: add <item>, remove <item>, print, exit");  
  
function repl() {  
  const command = prompt(">>").trim();  
  
  if (command === 'exit') {  
    console.log("Exiting REPL. Bye!");  
    return;  
  } else if (command.startsWith('add ')) {  
    const item = command.slice(4);  
    list.push(item);  
    console.log(`Added '${item}' to the list.`);  
  } else if (command.startsWith('remove ')) {  
    const item = command.slice(7);  
    const index = list.indexOf(item);
```

```

    if (index !== -1) {
      list.splice(index, 1);
      console.log(`Removed '${item}' from the list.`);
    } else {
      console.log(`'${item}' not found in the list.`);
    }
  } else if (command === 'print') {
    console.log("Current list:");
    list.forEach((item, index) => {
      console.log(` ${index}: ${item}`);
    });
  } else {
    console.log("Unknown command.");
  }

  // Repeat the prompt
  repl();
}

// Start the REPL loop
repl();

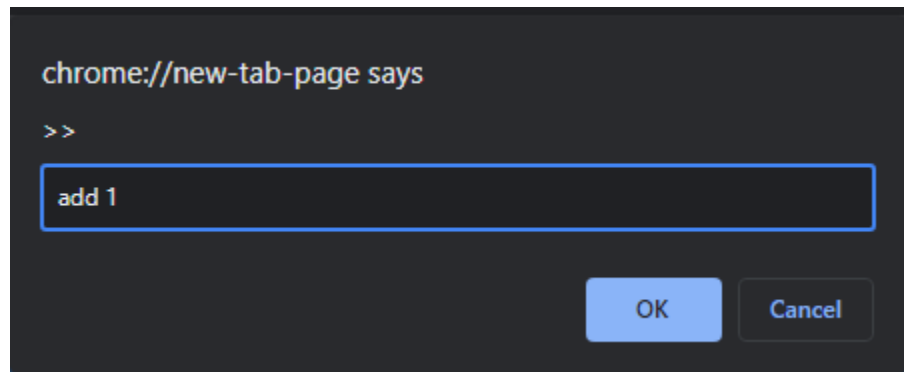
```

Output:

```

VM79:3 Simple Array REPL (JavaScript)
VM79:4 Commands: add <item>, remove <item>, print, exit
VM79:31 Unknown command.
VM79:15 Added '1' to the list.
VM79:31 Unknown command.
VM79:23 '3' not found in the list.
VM79:26 Current list:
VM79:28 0: 1

```



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OK

Cancel